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DATE MAILED: 09/29/2003

APPLICATION NO.	F	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DO	OCKET NO.	CONFIRMATION NO.
10/083,832		02/27/2002	Minghui Hong	4795-005		6207
24112	7590	09/29/2003				
COATS &	ΓT, PLLC	EXAMINER				
P O BOX 5 RALEIGH, NC 27602				ELVE, MARIA ALEXANDRA		
				ART UN	IT	PAPER NUMBER
			·	172	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
·	10/083,832	HONG ET AL.					
Office Action Summary	Examiner	Art Unit					
	M. Alexandra Elve	1725					
The MAILING DATE of this communication app ars on th cov r sh t with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status							
1) Responsive to communication(s) filed on	_·						
2a) ☐ This action is FINAL . 2b) ☑ Thi	s action is non-final.						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims							
4) Claim(s) 1-17 is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-4,8,10,11,13,14 and 17</u> is/are reject	ed.	·					
7) Claim(s) <u>5-7,9,12,15 and 16</u> is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement. Application Papers							
9)☐ The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12)☐ The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)⊠ All b)□ Some * c)□ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4.8 	5) Notice of Informal F	(PTO-413) Paper No(s) Patent Application (PTO-152)					
S. Patent and Trademark Office							

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DETAILED ACTION

Claim Rejections - 35 USC § 112

Claims 13 & 17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The claims disclose a flexible circuit for the inkjet cartridge; the meaning of this in not defined.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4, 8, 10-11, 13-14 & 17 are rejected under 35 U.S.C. 102(b) as being anticipated by Waizmann (US Pat. 5,592,879).

Waizmann discloses an apparatus and method of cleaning residues from printing machine components. Residuals, such as inks, fibers, dirt, dust and so forth are cleaned from the printing machine components in a non-contact manner, that is, using a laser. The laser beam passes through a mirror, a beam compressor, lenses, split or quad module, a mirror, a diaphragm, a UV achromat, mirrors, and an objective. Dirt is cleaned from the target object at the surface of beam impingement. Particles of debris

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are detached or driven away by the beam and then drawn off by a vacuum device. The mirror(s) can be swung by servomotors and thus move the focused beam along the target surface. The laser beam is pulsed and has a wavelength within the range of 100 nm to 400 nm. Pulse durations are in the range of 1 to 50 ns. Examples of lasers, which may be used, are CO₂ lasers, excimer lasers and Nd:YAG lasers. (abstract, col. 2, lines 19-26, 50-67, col. 3, lines 1-67, col. 4, lines 19-27).

Allowable Subject Matter

Claims 5-7, 9, 12, & 15-16 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: the prior art does not teach the use of sensors/detectors for determining whether the surface has been cleaned, or the replacement of a contaminated circuit, or the entrapment of debris or contamination.

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Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See US PTO-892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to M. Alexandra Elve whose telephone number is 703-308-0092. The examiner can normally be reached on 6:30-3:00 Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Dunn can be reached on 703-308-3318. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

September 18, 2003.

M. ALEXANDRA ELVE PRIMARY EXAMINER